

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

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(PCT Article 36 and Rule 70)

Applicant's or agent's file reference P03014PCT	FOR FURTHER ACTION See Form PCT/IPEA/416	
International application No. PCT/SE2004/001043	International filing date (day/month/year) 29.06.2004	Priority date (day/month/year) 01.07.2003
International Patent Classification (IPC) or national classification and IPC B01D 33/01, B01D 36/02		
Applicant Blue Air AB et al		

1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.
2. This REPORT consists of a total of 3 sheets, including this cover sheet.
3. This report is also accompanied by ANNEXES, comprising:
 - a. ☒ (sent to the applicant and to the International Bureau) a total of 2 sheets, as follows:
 - ☒ sheets of the description, claims and/or drawings which have been amended and are the basis of this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).
 - ☐ sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.
 - b. ☐ (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).

4. This report contains indications relating to the following items:

<input checked="" type="checkbox"/>	Box No. I	Basis of the report
<input type="checkbox"/>	Box No. II	Priority
<input type="checkbox"/>	Box No. III	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
<input type="checkbox"/>	Box No. IV	Lack of unity of invention
<input checked="" type="checkbox"/>	Box No. V	Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
<input type="checkbox"/>	Box No. VI	Certain documents cited
<input type="checkbox"/>	Box No. VII	Certain defects in the international application
<input type="checkbox"/>	Box No. VIII	Certain observations on the international application

Date of submission of the demand 31.01.2005	Date of completion of this report 28.09.2005
Name and mailing address of the IPEA/SE Patent- och registreringsverket Box 5055 S-102 42 STOCKHOLM Facsimile No. +46 8 667 72 88	Authorized officer Erik Miliander / MRO Telephone No. +46 8 782 25 00

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001043

Box No. I Basis of the report

1. With regard to the language, this report is based on:

- ☐ the international application in the language in which it was filed
- ☐ a translation of the international application into _____, which is the language of a translation furnished for the purposes of:
- ☐ international search (Rules 12.3(a) and 23.1(b))
- ☐ publication of the international application (Rule 12.4(a))
- ☐ international preliminary examination (Rules 55.2(a) and/or 55.3(a))

2. With regard to the elements of the international application, this report is based on *(replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report):*

- ☐ the international application as originally filed/furnished
- ☒ the description:
- pages 1 - 6 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☒ the claims:
- pages _____ as originally filed/furnished
- pages* _____ as amended (together with any statement) under Article 19
- pages* 7 - 8 received by this Authority on 31.01.2005
- pages* _____ received by this Authority on _____
- ☒ the drawings:
- pages 1 - 3 _____ as originally filed/furnished
- pages* _____ received by this Authority on _____
- pages* _____ received by this Authority on _____
- ☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

- ☐ the description, pages _____
- ☐ the claims, Nos. _____
- ☐ the drawings, sheets/figs _____
- ☐ the sequence listing (*specify*): _____
- ☐ any table(s) related to the sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

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INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/SE2004/001043

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	<u>1-8</u>	YES
	Claims		NO
Inventive step (IS)	Claims	<u>1-8</u>	YES
	Claims		NO
Industrial applicability (IA)	Claims	<u>1-8</u>	YES
	Claims		NO

2. Citations and explanations (Rule 70.7)

Documents cited in the International Search Report:

D1: WO0057985 A

D2: WO9110493 A

D3: WO0172642 A

D4: DE2315615 A

D1 describes a portable device for filtering water, comprising a container and a movable filter connected by an operating rod and sealing organs.

D2 describes a cylindrical filter comprising a carbon filter surrounded by a polypropylene wrap.

D3 describes a silver-containing solution for anti-bacterial coating of objects.

D4: describes a water filter with an active-carbon-filled labyrinth.

The cited documents represent the general state of the art. The invention defined in claims 1-8 is not disclosed by any of these documents.

The cited prior art does not give any indication that would lead a person skilled in the art to the claimed water filtering device with a filter element having a labyrinth function and with means for emitting silver ions. Therefore, the claimed invention is not obvious to a person skilled in the art.

Accordingly, the invention defined in claims 1-8 is novel and is considered to involve an inventive step. The invention is industrially applicable.

Claims

31-01-2005

1. Water filter device, said device comprising a container (1; 101) that has an opening for filling of water, and a filter unit (3; 103) that is movable relative to the container (1; 101), that the filter unit (3; 103) comprises a filter element (5; 105), an operating rod (7; 107) connected to the filter element (5; 105) and sealing means (14; 116) along the periphery of the filter element (5; 105), that the filter element (5; 105) comprises a particle filter (10; 110) and an adsorption filter (11; 111), and that in connection with the operating rod (7; 107) means are provided for emitting silver ions, characterized in that the filter element (105) has a labyrinth function.
2. Device according to claim 1, characterized in that the operating rod (7; 107) is coated with an agent that emits silver ions.
3. Device according to claim 1 or 2, characterized in that the filter element (5; 105) generally is disc shaped, and that the operating rod (7; 107) generally extends perpendicular to the filter element (5; 105).
4. Device according to any of the previous claims, characterized in that the filter material in the particle filter (10; 110) constitutes polypropylene.
5. Device according to any of the previous claims, characterized in that the filter material in the adsorption filter (11; 111) constitutes active carbon.
6. Device according to any of the previous claims, characterized in that a partition (118) is provided in the adsorption filter (111), said partition (118) extending transverse to the longitudinal direction of the operating rod (107).

7. Device according to claim 6, characterized in that the partition is in the shape of a circular disc (118) with a smaller diameter than the filter element (105).

5 8. Device according to any of the previous claims, characterized in that the sealing means (14; 114) comprises a tongue (16; 116), whose free end in active position abuts the inner side of the container (1; 101).